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ALL EYES ON JUNE

Outline of plans for the great Technology Reunion June 12, 13 and 14, 1916

At the last meeting of the Alumni Council Charles A. Stone, '88, chairman of the All-Technology Reunion Committee, told of the plans for the great reunion of 1916, and outlined a tentative program. It is planned to carry out every detail of this reunion on a grand scale, and in order to properly accomplish this, preparations were begun early in the fall and are now being worked out in a most satisfactory manner. The general program is as follows:

FRIDAY, SATURDAY AND MONDAY, JUNE 9, 10, AND 12:

Registration: June 9 and 10, in some central location in the business district of Boston to enroll as many local men as possible and simplify registration of outside alumni on Monday.

MONDAY, JUNE 12:

- 11.00 a. m. Farewell to Institute buildings.
- 2.00 p. m. Tour of Charles River basin. Guests to be taken from the Boston side and landed in front of the new buildings. Inspection of new Technology, student guides to be located throughout the buildings.
- 4.00 p. m. Afternoon tea in new buildings. Guests to be divided into groups in several parts of the building to prevent crowding.

- 6.00 p. m. Class dinners.
- 8.00 p. m. Smoker at the City Club. Some form of entertainment on auditorium floor; refreshments on next floor.
- 10.30 p. m. Cheer Rogers' Building.

TUESDAY, JUNE 13:

- 10.00 a. m. Excursion to Nantasket; buffet luncheon; class stunts.
- 8.30 p. m. Pageant in the great court in connection with a water fête. Buildings illuminated; fireworks display.

WEDNESDAY, JUNE 14:

- 11.00 a. m. Meeting of the Technology Clubs Associated.
- 12.30 p. m. Departmental luncheon.
- 2.30 p. m. Dedicatory exercises in the Great Court of the new buildings.
- 7.00 p. m. Grand banquet in Symphony Hall.

There will be an opportunity for fraternities and societies to get together either for luncheon Monday, June 12, or for dinner Tuesday evening, June 13.

All these different events will be placed in charge of special committees, and, although many of the chairmen have been selected, the names will not be published until the appointments have been completed.

The enthusiasm with which the alumni are preparing for the reunion indicates a wonderful gathering here in Boston such as we have never seen before and may

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not see again for a long time. It is expected that there will be delegates from every Technology club in the United States and many of those abroad. A long distance cup will be offered; also a cup for the class making the best showing.

It will be noticed from the above program that it appeals as much to the women as to the men; practically every function will be open to them except the smoker at the City Club Monday night, the meeting of the Technology Clubs Associated Wednesday noon, and the grand banquet Wednesday night. In the latter case, however, the ladies can view the interesting features of the banquet from the balconies. Probably some form of entertainment will be arranged for the women on Monday night.

Several of the classes have registered their class stunt, keeping in mind that it cannot occupy over three or five minutes, that it should have some definite point, and should, as far as possible, include members of the class in some way. This feature of the reunion will undoubtedly be a remarkable one. Every feature of the reunion will be recorded in photographs and moving pictures for reproduction later on at local alumni centers and elsewhere.

The local alumni associations have been requested to appoint some active member to coöperate with the General Reunion Committee and act as chairman of the local committee, the other members of which will be made up from the class representatives which will be appointed in each of the large cities.

Arrangements for transportation are already being made, and it is likely that an interesting statement will be made by the Transportation Committee in the next number of the REVIEW.

Every Tech alumnus should make up his mind to come to this reunion if possible. We want to make a demonstration that will bring forcibly to the public eye the wonderful history of the Institute, and the still more wonderful opportunities that will be afforded in the new buildings, not only for the education of young men in the lines of applied science, but for research in practically every field of

scientific endeavor. We also particularly want to emphasize the fact that Technology is offering its students social advantages unusual even among the best equipped universities. In order to do this the Walker Memorial, which is to be the students' club room on the new site, must be built so as to completely fulfill its mission. For this purpose and the building of the gymnasium, swimming tank, etc., probably half a million dollars more is needed. How much of this the alumni are willing to give directly for these purposes is a question to be answered, but it is hoped that this anniversary occasion will bring the Institute so favorably to the attention of generous friends that these student features which are now a source of much anxiety to the Building Committee as well as to alumni, will be fully assured.

Meeting of Philadelphia Club

At a meeting of the Technology Club of Philadelphia, held November 3, Carleton E. Davis, '93, chief of the Philadelphia Water Bureau, described the new water system that is being constructed in New York, and described it as the greatest feat of hydraulic engineering ever undertaken. He laid particular emphasis on the capacity of the work, speaking especially of the reservoir in the Catskills, a hundred miles from the city, which will have a capacity of 138,000,000,000 gallons. Mr. Davis was enthusiastic in his praise of the plan suggested by the Engineers Club for forming a central clearing house, where information on engineering subjects can be exchanged.

Raised the F 4

It is interesting to note, from the news of the class of '05 in the TECHNOLOGY REVIEW of last month, that the apparatus used in the raising of the submarine F-4 at Honolulu was designed by Naval Constructor Furer, '05, and was built under his direction. He is connected with the United States Naval Station at Pearl Harbor, T. H.

TECH SONG COMPETITION

In connection with the All-Technology reunion of 1916 there will be need of some good, ringing Tech songs, and a committee has been appointed to secure contributions of songs, words and music, which can be used not only for the reunion but also at meetings of students and of alumni. It has been decided by the committee to offer a silver cup as a prize for the best contribution in this class, the decision to be left to a jury of five Institute alumni, to be named by the Reunion Committee.

We would also like to get particularly good words which can be set to popular music which everyone would be likely to know—and last and fully as important as the others are the little verses with an original twist like Gelett Burgess's " $xy^2 + 18xy \dots$ " which he composed for the reunion of 1909. In other words we ask every Tech man to send in a contribution to this department knowing that among the many offerings there will be a number that will be particularly good.

The song selected from the contributions received will be printed with other Tech songs in an alumni song book which will be used at the reunion and will also be available later on for class, fraternity and local alumni meetings.

Please bear in mind that one of the important considerations is to have music that is well within the compass of the average voice and which at the same time has verve and "go."

Please send contributions to George B. Glidden, 551 Tremont Street, Boston, Mass., Chairman of the Music Committee.

REUNION PLANS AND SITE HISTORY

Chairman Stone outlines Reunion program and Everett Morss tells story of Tech sites at Council meeting

The meeting at the Engineers Club, November 29, was, in point of attendance and interest, one of the best in the history of that body.

During the salad course Edward B. Rowe, '06, chief illuminating engineer of the Holophane Works of the General Electric Company of Cleveland, who has charge of this work at the new buildings in Cambridge, was called upon to speak for the Cleveland association. He told of the many activities of the club and of the enthusiasm shown in Technology affairs. He had recently visited a number of the larger cities, and the alumni there are eagerly looking forward to the reunion.

Field Manager Litchfield told of his trip to New York, Pittsburgh, Indianapolis, Louisville, Cincinnati and Philadelphia. Everywhere he found the alumni responsive to every Technology interest, and the different clubs visited are growing in strength, influence and usefulness. At Louisville a new local alumni association was formed with James Clark, Jr., '90, as president, and Lewis S. Streng, '98, secretary.

Mr. Bemis was then called upon to report for the Dormitory Committee. He said that the most cheering news he could offer was that the ground had been broken on that very day for the dormitory units described at the last meeting. For the present there was little more to say about it. Later there would be the question of the supervision of the dormitories. Messrs. Allen and Dalton and the other members are getting information in regard to the practice at other institutions, which will be analyzed with a view to making recommendations. The final report of the Dormitory Committee, which was discharged at the October meeting, was presented but not read. The report is as follows:

At a meeting of the Alumni Council held April 27, 1914, there was a general discussion of the several ways in which the Council might be of most immediate service to the Institute. Among other things it was urged by Mr. Munroe that the Council at once take hold of the dormitory question to see if it might not assist the Executive Committee of the Corporation in raising funds, in studying the problem of layout, and in dealing with the complex question of the relation of the fraternity houses to the ordinary dormitories.

As a result of the discussion, a committee, consisting of J. P. Munroe, '82, A. C. Anthony, '86, A. T. Bradlee, '88, C. W. Eaton, '85, F. A. Merrill, '87, and the president and secretary, *ex-officio*, was appointed. This committee held a number of meetings and conferences, to some of which were invited the President and treasurer of the Institute and other interested individuals, including Mr. A. F. Bemis, '93, the chairman of the committee on student housing, whose excellent report was published in the REVIEW for May, 1913.

On February 12, 1915, the committee called a meeting at the Engineers Club of delegates of fraternities, for an informal dinner and discussion. Fifteen of the twenty-one chapters at the Institute were represented by thirty-seven men, and there were present also Messrs. Bemis and Bourne of the Student Housing Committee, and Messrs. Snow and Cushing of the Technology Christian Association. The discussion was participated in by a large proportion of the men present, and a fine spirit of loyalty to the Institute, and of desire to coöperate with it in solving in the best way the dormitory problem, was made evident.

Dr. Marcy, speaking officially for Delta Kappa Epsilon, and others speaking unofficially, including Mr. Bemis for Theta Xi, Mr. Allen for Delta Tau Delta, Professor Talbot for Phi Gamma Delta, and Dr. Chase for Sigma Chi, all expressed the belief that their fraternities would be willing to locate on the campus, provided a feasible scheme is presented for their consideration. All were unanimous, however, in the belief that if fraternity houses are made part of the dormitory scheme, each of such houses must have its own lounging and dining room and separate service. The meeting was marked by a fine spirit and a desire to subordinate personal preferences to the highest good of the Institute as a whole.

The Alumni Council meetings of March 1 and March 29, 1915, were largely given up to a general discussion of the closely allied problems of dormitories, the Walker Memorial, the gymnasium and the student commons. At both meetings it was emphasized that these four services are essential to a proper student life on the new site, and that all of them should be ready for the fall of 1916. It was the general opinion, however, that in the

beginning, dormitories for only a portion of the undergraduates requiring to be housed need be furnished, this modified provision being dictated by money limitations and by the need of a gradual and cautious working out of a problem so new to the Institute authorities.

At these meetings it was the informal opinion of the treasurer and other official representatives of the Institute that the Corporation should provide in some form for a general lunchroom and a gymnasium, and that it should assist the alumni, as far as its resources permit, in providing the money for an adequate Walker Memorial and for dormitories to house at least 400 or 500 students.

In June, 1915, the President of the Institute announced the receipt of two anonymous gifts, one of \$150,000, the other of \$100,000, which, together with an existing gift of \$100,000 from Coleman du Pont, '84, were to be used towards the erection of dormitories.

Since these gifts appeared to supersede any general system of dormitory financing by the alumni, such as had been under consideration by this committee, the main reason for its continuance seemed no longer to exist; and the chairman wrote, therefore, to the President of the Institute, asking what, if any, further service this committee of the Alumni Council might render. To this inquiry he received the following reply:

"DEAR MR. MUNROE:

On various occasions during the last few years I have voiced the opinion of the Executive Committee of the Corporation that the provision of dormitories was one of the most important elements in the large problem of establishing what is popularly spoken of as the 'New Technology' on the banks of the Charles. There has been no change of view within the committee as to the urgency of the need that has thus been expressed and it has always been the understanding that we should proceed at once with the erection of dormitories as soon as money was available for the purpose. Your committee and others set up by the Alumni Council have rendered most valuable aid by careful investigations as to the needs and by keeping the broad issue before those who are watching with special interest the progress of the Institute. In June last I was happily in the position to announce that two benefactors had promised substantial sums to be used for the erection of dormitories and immediately after that the matter was placed in the hands of the Institute's architect together with material furnished by committees of the Alumni Council. It has taken a long time to get plans into a form that satisfies all our needs and to reconcile the somewhat conflicting demands of low cost to the student and appearance worthy of the Institute and of the standard that it has set in its educational buildings. We have not yet reached a complete solution of this problem, but I believe that we are very near it. We expect before the winter sets in to begin the erection of dormitories on the river front, costing about a quarter of a million dollars, and these will be ready for occupancy next fall.

I beg to tender to you and your associates the

thanks of the Executive Committee for your helpful coöperation.

Yours sincerely,
RICHARD C. MACLAURIN."

Consequently, at the meeting of the Alumni Council on October 25, the committee asked for its discharge, with the understanding that its formal report might be presented at a later date.

In making this formal report the committee desires to express its special obligation to Mr. Hart, the treasurer of the Institute, for his very cordial coöperation in devising plans for financing the dormitories, to Mr. A. F. Bemis for active and constructive work on the problems of specific room plans, and to Mr. R. H. Howes, '03, for much practical assistance from his experience as a contractor.

JAMES P. MUNROE,
H. J. HORN,
ARTHUR C. ANTHONY,
ARTHUR T. BRADLEE,
CHARLES W. EATON,
F. A. MERRILL,
WALTER HUMPHREYS.

Everett Morss, '85, a member of the Institute Corporation and one of the members of the committee to investigate the various sites offered to the Institute before the Cambridge location was chosen, was next introduced. His story of the vicissitudes of negotiations for a site was intensely interesting. We have not opportunity of reproducing it here, but it will be printed in the January number of the REVIEW. In closing his remarks Mr. Morss said:

"It is nine years from the appointment of the first Fund Committee to now. Some members of the Council are impatient because the alumni have not appropriated the money for the Walker Memorial. They are disappointed when they think that nothing is being done. Now you must remember that the Corporation hasn't said what it would do. In the meantime the funds have been coming in, \$280,000 to \$300,000 last spring, \$346,000 now; in addition there was \$20,000 given to pay for land and therefore taken out. This makes \$366,000 in all. I estimate the fund may reach \$400,000 to \$410,000 a year from now. This is a lot of money, and not one cent of it has yet been appropriated for anything.

"We have had subscriptions of \$500,000 from the alumni. This is good, but

personally I don't feel all have done as much as could have been done. My idea is that the amount should have been about \$1,000,000. The reason we cannot appropriate what you wish is that we only got about half the money needed. The Corporation has refused to do many things it couldn't do because there was no money. We have done what we have done, right. We should be feeling much pleased over some of the things that have been accomplished. The Walker Memorial, the commons, the gymnasium, dormitories, are being mulled over. They should be considered, not as individual projects, but we must see their relation to a logical whole. The subscriptions are perhaps all that we could have expected. We never did make a clear presentation to the alumni. It was all a hazy dream. A specific plan would have obtained more. We did not make a good case and got contributions from only about 25 per cent of the men.

"Starting January 1, we shall be on a new basis, and we shall expect to get the rest of the money required from the alumni, when they realize what we want to do. Our hope is that we shall have our problems worked out satisfactorily. January first is the date to start. We are working and will make a tremendous effort to get these things together as a whole."

President Horn next introduced Charles A. Stone, '88, chairman of the Reunion Committee. Mr. Stone said that the committee had got to work early on the general plans for the reunion, but that all the details of the program had not as yet been arranged. The items that had been decided on started with the registration which will be most active June 9 and 10. In addition to the regular registration headquarters a room will be secured in the business district where as many of the business men will be registered as early as possible in order to simplify registration of outside alumni on Monday.

On Monday, June 12, at 11 o'clock, there will be opportunity to visit the present buildings. At 2 o'clock p. m. there will be a tour of the Charles River basin. The guests will be taken from

the Boston side and landed in front of the new buildings. In the buildings will be student guides who will give information in regard to the various departments. At 4 o'clock afternoon tea will be served in the new buildings, possibly on the roof, and in the evening there will be a smoker at the City Club. Some form of entertainment will be given on the auditorium floor. At 10.30 the alumni will march up to the Institute headed by a band and cheer Rogers Building, which will be decorated and illuminated.

Tuesday, June 13, at 10 a. m. guests will take steamboats to Nastasket beach where a buffet luncheon will be served at noon and where the class stunts will be given in the afternoon. At 8.30 p. m. there will be a pageant in the great court of the Cambridge buildings in connection with a water fête, pyrotechnic display, etc.

Wednesday, June 14, at 11 o'clock there will be a meeting of the Technology Clubs Associated at one of the hotels. At 12.30 departmental luncheon will be served, and in the afternoon at 2.30 or 3 o'clock the dedicatory exercises will be held in the great court of the new buildings. The ceremonies here will be impressive. At 7 o'clock p. m. on Wednesday will occur the grand banquet in Symphony Hall.

Mr. Stone called attention to the fact that there were three occasions from which the classes and fraternities could choose opportunities to have dinner or luncheon meetings. These are on Monday noon, Monday night and Tuesday night. Mr. Stone spoke of how the various members were taking hold of the work and predicted an immense turnout of Tech men on this occasion.

Matthew C. Brush, '01, spoke of the great impression that Mr. Morss's history of the site question had made on him and hoped that it would be given wide publicity among the alumni.

James P. Munroe, '82, moved that it was the sense of the meeting that the President write a letter to the president of the Elevated Road Company and suggest that the station at Kendall Square be changed to "Technology." This motion was unanimously carried.

INTER-CLUB MEETING AT INDIANAPOLIS

Local alumni association gives a blow-out on its first anniversary. Hoosier Tech men generous entertainers

The Neighborhood Technology Clubs meeting, which was held by the Indianapolis association at Indianapolis, November 20, and which included the members of the Cincinnati association, the Dayton Technology Club and the Tech men of Kentucky, was advertised as a Technology Thanksgiving Union Meeting, but it not only partook of a Thanksgiving atmosphere, but also had all the happy and patriotic features of Christmas and Fourth of July. The receipt for this most successful reunion included unlimited quantities of loyalty, Technology spirit and hospitality, and the event will long be remembered by the visiting delegates.

During the forenoon of the 20th the representatives from the other associations began to drift into headquarters at the Severin Hotel, and long before the luncheon hour everybody was thoroughly acquainted with everybody else. There were thirty-five or forty at the luncheon, following which, automobiles took the party to the ball park where a football game, to determine the supremacy of Wabash or DePauw, was to be played. Here Technology cheers were almost as much in evidence as those of the warring factions. Between the halves of the game a picture was taken of the Technology group.

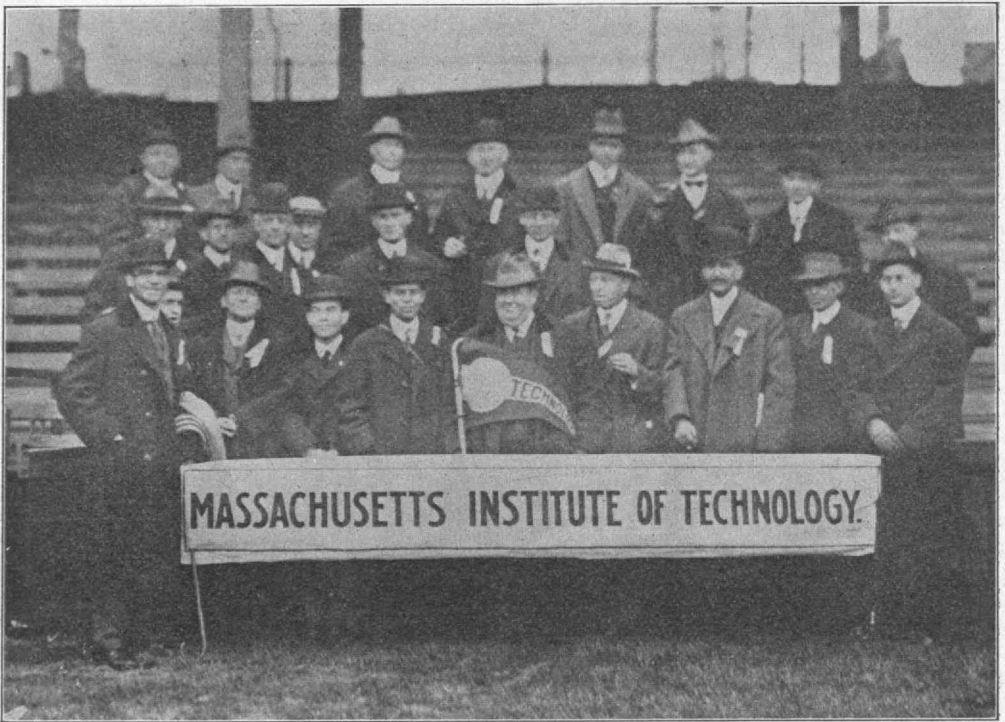
There were some forty present at the banquet, which was held at the University Club in the evening.

The dinner committee had given the decorations and program a great deal of thought, and there was never a lagging moment. It was, of course, most appropriate that Thanksgiving services should be held in connection with the celebration, and in order to fill this need the committee had had erected in one of the alcoves a duplicate of the "Chapel" which, when opened for inspection, was found to be fully up to tradition. The president of

the Indiana association, J. Lloyd Wayne, 3d, '96, acted as moderator of the meeting, and after invocation he announced that the evening meal was opened for discussion. Between the courses Tech "hymn-books" were passed around and everybody joined in the songs with a will. During the desert course the guests were served with little individual New England mince pies, each embellished with an M. I. T. monogram.

The speakers of the evening were Henry M. Waite, '90, city manager of Dayton, Ohio, who was announced to deliver the sermon; I. W. Litchfield, '85, Boston, field manager of the alumni associations, who conducted the Sunday School, and Severance Burrage, '92, of Indianapolis, who was supposed to lecture on the dawn of enlightenment in heathen lands. Mr. Waite took for his subject the commission manager form of government, which is so successfully working out in Dayton, Ohio. The plan has now been on trial long enough to observe its tendencies and gain some results. Mr. Waite stated that it was applicable to any city which was willing to do away with partisan politics in municipal affairs. He described how it was working out in Dayton, some of the difficulties they had encountered and some of the developments that had been effected. His conclusion was that a centralized form of municipal government is far superior to the federal form, and he prophesied that there would be a large increase in the number of cities adopting this form of government in the near future.

Mr. Litchfield showed progress pictures of the new buildings from the bare site up to the present time. He described the buildings and told of the status of the dormitories and the Walker Memorial. The audience was particularly interested in the plans for the grand reunion of June, 1916, and it is expected that a



Some of the participants at Indianapolis

considerable number of the men who were present will attend the reunion at that time.

Severance Burrage, who is director of the biological laboratories of the Eli Lilly & Company, Indianapolis, showed by moving pictures the process of making antitoxins. During the evening a number of celebrities presented special acts, among them William P. Turner, S. M. A. '86, professor of practical mechanics, Purdue University, Lafayette, Indiana, whose artistic efforts on the harmonica recalled the Symphony Hall concerts of student days. His *chef d'œuvre* was an original rendition of the "Arkansas traveler," which brought down the house. Alex. Vonnegut, who represented the Harvard Club of Indiana, gave an excellent impersonation of Teddy Roosevelt. Professor E. H. Davis, '01, of Purdue also performed on the harmonica, after which Charlie Rockwood, '01, presided at a Faculty meeting, before

which the cases of Douglas C. Jillson, '01, for cutting Chapel, and Charles A. Tripp, '93, for cutting mechanical laboratory were discussed and the culprits appropriately punished. In presiding over the Faculty, Rockwood had it distinctly understood that although he could not mimic President Maclaurin, he could mimic him if President Maclaurin were to mimic Harry Lauder! To those who know Charlie Rockwood, it is needless to say that this impersonation was perfect.

The Christmas feature of the entertainment came at the wind-up of the dinner and the great yellow pie in front of the toastmaster was investigated and appropriate presents were distributed to everybody in the room.

The hospitality of the Indiana men was undiminished on Sunday when the delegates, most of whom remained, were taken in automobiles for a tour of the residential portion of the city and the

inspection of the great Indianapolis automobile speedway. Some dozen of Tech men lunched together at the Claypool, and in the afternoon visits were made to points of interest in Indianapolis.

The meeting was a most successful one and is undoubtedly the beginning of a number of small interclub gatherings, which will make the alumni of neighboring cities better acquainted with each other.

Those present were: From Cincinnati: J. M. Hargrave, '12; Stanley A. Hooker, '97; H. S. Morse, '03; A. H. Pugh, Jr., '97; Morse W. Rew, '09; from Dayton: J. E. Barlow, '05; Frank B. Heathman, '98; Gerard H. Matthes, '95; Charlton D. Putnam, '08; C. H. Spiehler, '08; Henry M. Waite, '90; Walter G. Wuichet, '89; from Indianapolis: A. Russell Atwater, '13; Severance Burrage, '92; H. M. Chapman, '92; Albert W. Higgins, '01; John H. Holliday, Jr., '05; Douglas C. Jillson, '01; W. C. Marmon, '95; C. B. Mayer, '05; Wilson B. Parker, '88; Charles P. Rockwood, '01; Herman A. Scherrer, '03; F. B. Shields, '07; J. W. Stickney, '96; Charles A. Tripp, '93; William G. Wall, '96; J. Lloyd Wayne, 3d, '96; also: Edward H. Davis, '01, of Purdue University; Howard A. Dill, '91, Richmond, Indiana; Prof. E. D. Hayward, DePauw University; I. W. Litchfield, '85, Boston, Mass.; William P. Turner, S. M. A. '86, Purdue University; Alex. Vonnegut, representing the Indiana Harvard Club.

Good Outlook at the Capitol

The Washington (D. C.) Tech Club has taken a new lease of life, and the program for the year, thus far, has been unusually interesting. Conditions in Washington are such that it is more difficult to keep the men together than in perhaps any other city, but there is now a spirit of hearty coöperation there, and the men are pulling together as a unit. Under these circumstances it seems likely that interest there may grow until it has become one of our most important Technology centers.

One reason for the interest of the members and for the success of the meet-

ings has been the appointing of special committees for each meeting, thus giving added zest to the program and bringing a large number of men into active work.

The largest contemplated undertaking is that of establishing a Tech house. It will be remembered that the Technology Club of New York started practically as a rooming house for Tech men, and it is thought by many in Washington that there will be enough young men there who would take rooms in such a house to make it a success. It would be in effect a Technology club, the living rooms on the main floor of the house being open to Tech men as a meeting place. It is apparent that the younger men are doing the principal amount of work, and if they are heartily backed by the older members, the continued success of the association and its undertakings will be fully assured.

Starting Freshmen Right

The work of assisting the freshmen to register on their arrival at Technology, of suggesting boarding places and giving helpful advice during the early weeks of their stay here, was undertaken by the Technology Christian Association last year and further developed this fall. The association provides, principally from the ranks of the seniors, advisers for the freshmen, which have the approval of the Dean. In order that the freshmen may be impressed with the desirability of applying for a student adviser the Dean sends a communication to each of them, describing the offices of the Christian Association and suggesting that they take advantage of the opportunity thus presented. The character of the services rendered is most efficient and Tech men who have come to the Institute during the last ten or a dozen years, who know the intricacies of registering at the present time, will realize the advantages of the services that the freshmen are offered.

Death of Professor N. Frederick Merrill

N. Frederick Merrill, '70, emeritus professor of chemistry at the University of Vermont, died suddenly October 26.

POWER HOUSE NEARLY DONE

Model 2,000 horse-power plant with all approved mechanical accessories to be the steam laboratory

The steady growth of a tall cream-colored chimney at the northerly end of the new site of the Massachusetts Institute of Technology marks where the new boiler house is being built, and with such rapidity that a month hence will see it in commission. The steam will then be available for drying the plastering that is being applied in quantity to the walls of the offices, study rooms and laboratories.

The new plant will at the beginning develop about 2,000 horse-power in steam. It is modelled on the lines of a very modern power house but unusually condensed, being ten feet narrower than any other station of similar capacity. This narrowness is because the building lies in the ninety-foot strip belonging to Technology between Vassar street and the railway. The latter affords economical delivery of coal in large quantities, and with mechanical stokers and other appliances the coal is not handled by men at any stage of its use.

The boilers lie transverse to the street and railway, being so placed in order to make more easy the addition of other boilers as the future needs of the growing Institute may demand. There will be 1,560 horse-power of new boilers and four hundred removed from Trinity place, the new ones being of the Babcock and Wilcox pattern, with Riley stokers and working under forced draught.

One especial feature will be that the boilers will be equipped for heavy overloading, which is not to be taken in the sense that they will be other than exceedingly safe, but that they will be able to evaporate water to an almost unlimited extent in ratio to the combustion. When not in demand, any boiler will be automatically slowed down.

There are features in this plant that make it different from ordinary commer-

cial boiler rooms. It will itself be a laboratory for the use of students, it will care for lighting, heating and power and will be built on the lines of a big central station. The laboratory use is likely to demand a high peak load, which the establishment must be able to care for, but, at the same time, the load factor is comparatively low. The location of the plant, besides affording the convenience and economy of direct coal delivery, is sufficiently far from the educational and student portions of the Technology assemblage of structures to be no nuisance in point of dust, while the chimney will group itself with the near-by commercial chimneys of the busy city. The boilers are of the wrought-steel, water-tube type, designed for 175° working pressure and superheating the steam 100°F., an important economy, in the use of the steam turbine. The stack measures ten feet in its bore and eighteen feet in outside diameter and when the capping is placed will stand 180 feet above its base.

To convey steam to the buildings and laboratories where it will be needed, a subway of reinforced concrete is being built, about seven feet square in inside measurements and 625 feet long. It is to connect with the educational group through the administration building and from this the steam will be distributed to the points where it is needed. For the present the supply will be a twenty-inch pipe for utilitarian purposes, a ten-inch pipe for furnishing the laboratories and a five-inch return for water from condensation. For furnishing condensing water for the turbines, a concrete main has been laid. This conduit is thirty inches in diameter, running back from the Charles River basin along the western edge of the great court. It will be above a quarter of a mile in length, and in rainy weather it will collect the

rainfall of the area and turn it in for condenser water.

The electrical outfit is an interesting one since the engine room will serve for sub-station as well as for central station. The initial equipment will include three turbines direct-connected to generators, one of 750 kilowatts, a second of 500 kilowatts and the third of 150 kilowatts, furnishing three-phase current at 2,300 volts. There will then be one 150 k.w. turbine and two 150 k.w. motor generators furnishing direct current at 110 and 220 volts, and two 35 k.w. exciters, one each steam and turbine-driven. The current in various voltages will be conducted to the buildings and laboratories in lead-covered cables running in a special conduit.

The steam laboratory itself is to be located in the long building near and parallel to Massachusetts avenue. High pressure steam coming through the subway will be distributed to two mains below the ceiling of the first floor. There will be a superheater here connected at will with the machines where experiments are to be made. The condensers of the various engines in this laboratory are in the basement, and take the cooling water from one of the large hydraulic canals passing the warmed water into a hot water return. In the basement there will be apparatus for determining the flow of superheated steam through orifices or turbine nozzles.

On the first floor of this building will be located the engines, which make a formidable showing. There will be a Curtis turbine of about 75 k.w. capacity, a 30 horse-power Corliss with dynamometer attached to the fly wheel, a 225 horse-power McEwen tandem compound, a compound generator of the same make of 250 horse-power, and a triple expansion Corliss. These engines will be ranged along the western wall of the building. On the opposite side of the great laboratory will be a Brown engine driving a three-stage compressor which compresses air to 2,500 pounds per square inch. There will be two or three other compressors, and a few small engines to illustrate different types.

New Club in Louisville

The latest star in the galaxy on the alumni flag is the one which was formed at Louisville, Kentucky, November 22, when Mr. Litchfield of the Alumni Association visited that city with the latest word from Boston.

The meeting was held at the Pendennis Club whose reputation for hospitality honored and was honored by the formation of a Tech club within its walls. Keenest interest was manifested in the growth of the buildings in Cambridge, the details of their construction and the facilities which will be afforded on the new site. The student buildings came in for an equal amount of attention. Plans for the great reunion in 1916 were discussed, and it is evident there will be a large delegation from the Kentucky Technology contingent.

The club proposes to hold at least two meetings a year, but before the company dispersed a suggestion was made that the neighboring associations be invited on the occasion of Derby Day next May. In talking the matter over in the nearby Tech centers the spirit of the Kentucky men was cordially endorsed, but it was suggested that if this was intended to be a boom meeting for the reunion in Boston, it had better be held at some other time, as those attending from a distance might have difficulty in securing the wherewithal to return to their homes, let alone the longer trip to Boston.

The officers elected were James Clark, Jr., '90, president; L. S. Streng, '98, secretary.

The following members were present: W. E. Caldwell, '08; James Clark, Jr., '90; E. R. Cowen, '07; F. H. Keisker, '97; W. H. McAlpine, '96; F. H. Stover, '10; L. S. Streng, '98; M. H. Washburn, '03; W. H. Koppelman, '04; and F. D. Rash, '01, from Earlington, Ky.

Professor Hofman at Franklin Institute

Prof. Heinrich O. Hofman, acting head of the department of mining and metallurgy at the Institute, addressed the Franklin Institute at Philadelphia, October 20, on "The Metallurgy of Copper."

New York War Luncheons

Recent activities of the Technology Club of New York are as follows:

On Wednesday, October 27, at the regular Wednesday war luncheon, the speaker was Major General Leonard Wood of the U. S. Army. Major Wood spoke on the subject "Military Instruction Camps."

At the Wednesday war luncheon on November 3, the speaker was Lieutenant Cosmo Hamilton, of the Royal Naval Air Service of England. Lieutenant Hamilton spoke on "The Romance and Terror of Aerial Warfare," and gave many interesting details of the recent Zeppelin raids in England.

At the war luncheon, on Wednesday, November 10, the speaker was Commander Charles Longstreet Poor, commander of the first Battalion of the New York Naval Militia, director of the Navy League, etc. Commander Poor spoke on the subject "The Naval Militia, the Second Line of Defense of the Navy."

At the war luncheon on Wednesday, November 17, the speaker was Oscar T. Crosby, Esq., who recently returned to America from his work as director of the relief work in Belgium. Mr. Crosby spoke on the subject "A Plan for an International Peace Tribunal, Enforced by an International Army and Navy."

The tenth and last of this series of war luncheons was held on Wednesday, December 1. At this last luncheon the speaker was William Seaman Bainbridge, A. M., M. D., Sc. D., surgeon and author, who returned recently from Europe, having made a survey of hospital, Red Cross, and sanitary conditions in France, Germany, England and Belgium. Doctor Bainbridge spoke on "Personal Experiences in the War Zone" and illustrated his remarks with a series of very interesting lantern slides made from pictures taken by himself within the war zone.

On Saturday, December 11, the club will hold a luncheon in honor of Dr. Richard C. Maclaurin, President of the Institute. Dr. Maclaurin will speak at this luncheon on "Present Conditions at the Massachusetts Institute of Technology." Other guests of honor at this luncheon will be some of the men in New

York at the time attending the meeting of the Chemical Society, among whom will be Prof. H. P. Talbot, '85, George F. Swain, '77, and Dr. W. H. Walker of the Institute, Mr. A. D. Little, '85, of Boston, and Doctor Wagner of New York. These gentlemen will each make a few remarks at the luncheon.

Plans are being made at the club for promoting interest and making arrangements for attendance at the Technology reunion in June, 1916.

The membership of the club is in a very satisfactory condition, holding its own well over the thousand mark, and the club is maintaining its position as the center of Technology activities in the New York vicinity. Frequent class and fraternity dinners, as well as other private dinners, are held at the club.

Rooms for transients at the club are in constant demand and expressions of satisfaction are frequently received by the club management from those out-of-town members who have made use of the club facilities for transient rooms instead of going to hotels. As the demand for transient rooms increases it is intended to change some other rooms now occupied by men living permanently at the club into rooms to be used by transients, for it is felt that it is one of the most valuable things the club can do to keep the club attractive to its non-resident members and afford them room facilities when they visit New York.

A new business directory of the members of the club will shortly be published.

Election Day at Tech

The students are adopting a new method in regard to elections of the three upper classes. These are held on the same day, and in the evening there is a mass meeting of students in Huntington Hall to hear the returns. The plan of having the juniors appoint from their own number preliminary class officers for the freshman class has worked out most satisfactorily. These officers hold office until later in the year when the freshmen are better acquainted and can use some judgment in picking officers of their own.

BIRD'S EYE VIEW OF THE STUDENTS

Undergraduate life as seen through the eyes of a writer in the Boston Herald

Making boys mix—this is an important and not generally appreciated part of the program of management at many of Massachusetts' institutions of learning.

How easily possible it is for a youth, especially one of the scholarly or retiring type, to come to one of Boston's great schools, spend his four years and go away knowing hardly any men, either students or teachers, is very familiar. A Tech graduate of twenty-five years ago has recorded that but for the military drill he should never have made any acquaintances at all at the school; that form of exercise at least enabled him to become somewhat intimate with the man behind him who stepped on his heels.

The problem is not peculiar of course to any one school—they all have it. At Harvard before the advent of President Lowell's freshmen dormitories it was notorious that the great majority of boys, that is to say, those without social or athletic prominence, went through college with just about the associations they had at entrance. At the art and music schools, societies have to be furthered by the directors for the purpose of bringing together students from diverse localities and social environments. At the Tech of old, nevertheless, the chance of a timid young fellow's never emerging from his shell was perhaps greater than in almost any other institution, for several obvious reasons.

The Institute is, and always has been, a school where most fellows must study very hard to win their degrees; that fact makes many conscientious boys over-anxious not to lose time in social distractions. Again there is no system of dormitories—as yet—so that the stranger to Boston, finding himself lodged in some private family, perhaps at a distance from the school, easily forms associations that have nothing to do with Technology, and that may keep him from participation in its events. The location of the

Institute in the heart of a large city causes many students to spend any spare time they have at public amusements instead of in gatherings of their own kind.

The mutual aloofness of Tech students twenty years ago was, therefore, nationally known. There were some graduates, indeed, who rather gloried in it. "Boston Tech," as the school is everywhere known except in Boston, was to their satisfaction not a place for society doings; fellows who wanted to develop sociability at the expense of period efficiency should go to the classical colleges. Tech was established to educate engineers, not bounders.

Well, Tech trained its engineers—there was no doubt of that. They went forth in their early twenties to take good salaried positions from Machias to the Mexican line and often beyond. Always a Boston Tech man was highly esteemed for his understanding of the technical problems of the branch of applied science in which he was expert. He could draw your plans for a dam that would safely impound a hundred million gallons of water or a sewage plant whose final residue you could quaff off as nonchalantly as if it were a glass of vichy. But it was noted that he often failed, at first, to qualify as a human man among men. At 23 or 24 he had to begin to learn the great lessons of give and take in social intercourse, or jolly and oh-be-joyful, of swearing eternal friendship and changing not, of overcoming the natural disposition of the bulls of our tread to look with suspicion on each other male mind. He was liable for some years after graduation to be constrained and formal in the company of his fellows. He sometimes, for this very reason, lacked initiative, push and hustle.

They are changing all that in the Technology of these days.

Every youth of this year's prospective entering class at Tech some time last

summer received a letter from a boy he had never heard of stating that the writer of the communication had been appointed his student adviser, and that as soon as the newcomer arrived in Boston he had best report for help in registering, choosing his room and other preliminaries.

With this letter, this time, went a confirmation, from the office of the Technology dean, of the right of the correspondent in question to make such a tender. This authorization was found necessary when first the system was tried, because about half the sub-freshmen receiving such a letter at once concluded that they were victims of a hazer's practical joke.

Several other colleges have advisers for freshmen; Tech is alone, so far as is known, in not choosing for this work officers of instruction, but students chosen by a student council.

The scheme has been found to work admirably. The other boy, to whom usually four freshmen are assigned, takes keen personal interest in his charges. He sees that they get successfully through the intricacies of registration. He goes out with them, armed with a list of certified boarding places of good character, and helps to choose a room suited to the newcomer's tastes and purse. He tells each advisee about the various societies and other activities and tries to get a line on his personal capacity before advising which things to take up. All through the year he keeps in touch with the fellows whom he played nurse to in the opening weeks of school.

"It is a very exceptional boy who does not find himself somewhere among his fellows," says Dean Alfred E. Burton, who has taken special interest in the development of this social side of the Institute. "We still have to a very limited degree the problem of the studious fellow of no marked initiative who naturally prefers to stay in his shell. For the most part, however, if there is any 'mix' in a boy he will be found out and compelled by public opinion to take part in some organizations. Roughly speaking, our athletics include about 200 men; the annual Tech show 100; the publication

of *The Tech* about 60; the officers' club, 60, and so on through a list as long as your arm. There has been created here in the past few years a really remarkable system of independent activities and the students themselves apply pressure to make each man fit in somewhere."

The building of the Technology Union some ten years ago, Dean Burton goes on to say, marked the beginning of a new social order at the Institute. Before that even the classes were not organizations as at the colleges. Instead each class had what was known as the "society of the class," composed of a few well-to-do students who held dinners at \$5 a plate and who otherwise cultivated aloofness from their fellows.

Fifty cents a plate is the price of a class dinner now at the comfortable Technology Union building, sandwiched in between two of the engineering buildings near the Back Bay station. "When it costs so little to eat together, why not eat?" say the undergraduates. Hence class dinners are of frequent occurrence through the year.

But these class meetings are only a small part of what goes on in the 2½-story structure, with its dining-room, social room, library, studio and other useful cubicles. There is something doing every minute in this focus of the Institute life. One feature is especially characteristic of the democracy of the school; nothing is exclusive, for if a meeting is going on it is a tradition of the Union that any member, uninvited, may be present as a spectator.

The point system by which the student council, which democratically administers in all provinces outside of the Faculty's control, is an interesting example of the growth of social facilities at Tech. A man, according to his standing in his studies, is permitted by the student government to do from one to ten points a year in outside events. A definite scale of values has been adopted for the different social things which students ordinarily do: say, three points for membership in the glee or banjo club; five points for editorship of one of the school publications; one point for serving as officer of a religious society; one point

for the hockey team, and so on—these, however, not being the actual figures, which may be consulted by any one interested.

Each man's schedule of contemplated points and his scholastic record are simultaneously placed before the Institute committee. If the student seems to be undertaking just about what he can reasonably carry, his schedule is passed without question. If, however, he is taking up more points than seem desirable or not so many as should be expected of an ambitious youth, he is advised to modify his plans. Such is the pressure of public opinion that the friendly counsel of the council is tantamount to an order. It is just as effective as a vote of the Faculty.

The point system grew up because in the first days of expanding sociability at Tech it was found that many men were going into so many things as to endanger their degrees. Under the new system a boy chooses his pastimes for points just as he selects his course.

What kind of amusements a Tech boy will elect to mix into will depend, of course, on himself. Some have so much of the serious settled disposition of men of science that they prefer to give their time, outside of their regular work for the school, to some one of the professional societies connected with the Institute. Such are the chemical, electrical, wireless, biological, mining engineering, architectural and other societies that meet frequently for smoke talks on technical subjects. The architectural students, who have the use of the studio at the top of the Union, are in especial so devoted to their own meetings and drawing classes that it is hard to get them interested in anything else.

As at other schools there are "geographical clubs," a large southern club and various associations of men from the same section or state. If a fellow belonged to no other association but one of these he would be likely to leave the Institute with rather a limited acquaintance.

One of the broadest and most famous of these societies is the Cosmopolitan

Club, to which every foreign student is eligible; and practically all of them do belong. The membership may be diluted by addition of one-third of native Americans, who are chosen because of apparent human qualities.

This Cosmopolitan Club, founded in 1910, has had most remarkable success in bringing together men of diverse races, religions and various conditions of prejudice. Throughout the winter it gives at the Union a series of "national nights"; now a Latin-American evening, with a program of entertainment contributed by the boys from Central and South America; now a Chinese night, a Canadian night and so on. One of Dean Burton's treasured personal souvenirs is a collection of 22 calligraphic cards, each with a translation in a different language, of a sentiment from Marcus Aurelius which he once gave before a meeting of the Cosmopolitan Club. The sentence in English was: "My native state and fatherland, in so far as I am Antonius, is Rome; but in so far as I am a human being, the whole world. Only those things, therefore, which are for the good of both these fatherlands are good for me." Members of the club translated this passage into such languages as Spanish, Portuguese, Chinese, Japanese, dialects of the Punjab and Cambodia, modern Greek, Roumanian, Albanian and others.

Besides belonging to the Cosmopolitan Club the Chinese students, 50 or more in number, gave a club of their own. How clever and resourceful these boys from the world's newest republic are has been shown to Boston these two past seasons by the plays which they have put on in Copley Hall in coöperation with the Copley Society.

Of very wide influence in Tech affairs is the T. C. A. (Technology Christian Association).

This is certainly a cosmopolitan and tolerant organization, for in its membership are found Moslems, Jews and Buddhists, to say nothing of Unitarians and Universalists. It is really non-sectarian—being Tech's great association of "uplift" forces. It holds meetings at the Union, usually during the noon hour, at

which some prominent person gives a 15-minute talk. Many a local professional or business man has found himself in good company with the boys who thus hook hands together. The average attendance at those affairs is 225. The T. C. A. has a class for Bible study. It maintains a social service department, finding chances for those members who want to do welfare work at Boston's Y. M. C. A. or at one of the many social settlements of the neighborhood. Each autumn it gives a reception to the freshmen. From the T. C. A. are chosen the 100 or more advisers to freshmen whose work has already been described. A Catholic Club includes in its membership many men who also belong to the T. C. A.

The Walker Club, founded in 1895 by students of the then "course in general studies," attracts a good many fellows of social disposition who like a club in which men of various specialties meet, without too much talking of shop. They dine together once a month and listen to a talk on some non-professional subject.

If the incoming Tech freshman owns up to any musical ability his adviser will urge him to go out for one of the four musical clubs: the orchestra, glee, banjo and mandolin clubs. These, of course, are much like similar organizations in every large school. So are the twenty-odd fraternities with an average membership of 30.

The Tech show, which has become a great and overshadowing event in the Institution's life, brings together a large group of men who evince dramatic or managerial ability.

Since 1898, when the Athletic Association, being in need of funds planned a little minstrel show to be given in Huntington Hall, this annual performance has become one of the most ambitious of any presented in this university community. *The Medicine Man* in 1900; the first presentation in this country of Gilbert and Sullivan's *The Grand Duke*, 1901; *Applied Mechanics*, a strictly Tech drama, 1902; *The Scientific King*, 1903; *Simon Pure Brass*, 1904—these were some of the earlier triumphs that have been followed by a list which is becoming too long for

recapitulation. Ask an Institute man what the Tech show is and he will say, "The best college show in the country." Ask a Boston citizen who follows dramatics and he will tell you, "The best amateur show given in Boston."

Most valuable to all, to the youth newly arrived in Boston from Arizona or Arequipa, it is positively democratic in character. You do not have to be a Codman or a Saltonstall to get a leading part. The one prerequisite is that you shall beat out your competitors in the preliminary trials. Early in February a call is issued for candidates for the cast. For about 100 places, including the chorus, anywhere from 250 to 300 fellows present themselves. The successful ones are picked by the student directors of the show for their voices, their looks and their ability to dance gracefully. Then come tri-weekly rehearsals until the show is given during Junior Week. A man who gets any kind of place on the cast is sure to gain valuable experience in coöperating with others to create a spectacular success.

Then there are athletics, consciously used at Technology, to foster individual initiative and group coöperation. In a school devoted to subjects so exacting as engineering courses, no considerable number of men can give the time needful for creditable performance in intercollegiate football and baseball. Hence the Tech football team, that used to be more or less of a joke in the 90s, no longer exists—a wise example to Columbia and some other urban colleges. But athletic sports have not gone by the board. An active youth can make his points in several events.

Men are no longer killed in the annual hazing of Tech freshmen by the sophomores. The energy formerly deployed in kidnapping newcomers and tying them to electric light poles at midnight in their underclothes now goes into preparation for the annual field day between the classes. On an appointed Saturday early in November the rival classes contest for inscription of their numerals on a silver cup. Two football teams from each class go up against each other. There is

a relay race of 12 men on a side, and a tug of war with 25 on a side.

They take this field day very seriously, do the Tech boys. One recent class had the misfortune to be beaten in both freshman and sophomore years, so that they will never be represented on the trophy cup. So badly did they feel that they met and solemnly vowed to punish themselves for being such duffers—by resolving that no member of the class should ever smoke a pipe on the Institute steps!

Count in the training for the track, hockey and wrestling teams, the gymnasium work that is required of all freshmen, the cross-country runs that each Saturday take a group of half-dressed lads into the suburbs, the class races on the Charles River basin and the military drill; these all are run so as to give co-operative exercise to all who are willing to take it.

The un-Prussianizing of the engineering profession ought to be helped along by such democratic self-government as the students learn at Tech. The Institute committee, the court of last appeal, the source of direct legislation among the students, carries responsibilities that, measured even by financial standards, equal those of many considerable businesses. They sit together on matters of policy and detail, much as the general board and executive committees of the Steel trust or the Boston Elevated company represent collective judgment. Twenty-seven men, one from each important student activity, make up the Institute committee. The whole committee meets twice a month, after the fashion of any responsible board of directors. Subject to their supervision an executive committee of five upper classmen meets once a week or oftener if necessary. There are, of course, various sub-committees. One for the dining-room, one for the social room, one to enforce the point system, and so on. In case of dispute between two organizations, the whole committee sits as jury.

To three men at least out of five with engineering training there will come a time early in the career when further promotion will depend on the impression

of executive ability that a young man of recognized competence to manage himself has made upon his superiors. A fellow who has served on the Institute committee is pretty apt to have got some idea of what it means to be an efficient executive.

An auditor's report of last June showed that every Tech society, big and little, was ending the school year solvent. Not a single group was disbanded for the summer leaving a lot of unpaid bills. Not a one had to feel doubtful whether its treasurer through carelessness or incompetence might have got the club's money mixed up with his own. Uniform accounting prevails in all the student organizations. Tech boys are reaching a point where they can capitalize a well-established credit due to efficient business methods. Presided over by the president of the Institute committee, there is an undergraduate finance commission consisting of the treasurers of all undergraduate societies and two non-student members who act in an advisory capacity. This commission prescribes the accounting for businesses that in the aggregate amount to more than \$25,000 a year. For every dollar that is spent in behalf of a Tech student group, it demands a properly countersigned voucher check.

"We want to give a concert at Gosnold," reports a representative of, say, the Glee Club to the finance commission.

"Let me see," says the chairman of the commission. "The population of Gosnold is only so much. Have you any guarantees for the sale of tickets?"

"Well, John Smith, who is a Tech '90 man, wrote that if we would come he would guarantee ten tickets?"

"That's probably about as many as you would sell in Gosnold. We advise you to pass it up."

And the Gosnold trip is passed up. That is about the way the restraining influence of the finance commission works. It has no authority to prevent the mandolin club from hiring Carnegie Hall to give a New York concert; but if it counseled otherwise the mandolinists would probably content themselves with giving a pretty little performance at the Technology Union.

PRESIDENT MACLAURIN'S FIELD DAY MESSAGE TO THE TECH.

I wish you all success in your effort to arouse a wider interest in athletic activities at the Institute by means of a special number of "The Tech." Unhappily in some colleges athletics have become an absorbing business rather than a health-giving exercise. There is no danger of such an abuse at Technology, pervaded as it is by the professional spirit of work. The danger here is rather that men may neglect the healthful means of self-improvement that comes from taking part in athletics. There can be no doubt that men, whether they be engineers, or architects, or anything else, should play the game of life more successfully if they have learned early to take part in the right spirit in manly sports. Not the least important of the gains that should thus come is the gain of robust health, a priceless possession rarely estimated at its true value until it is lost. We are here in a professional school preparing for very exacting professions by pursuing exacting studies that make a heavy demand on men's capacity and energy. If the student does not take care he may become so absorbed as to degenerate into a mere grind. He must constantly subject himself to self-examination to make sure that he is studying in the right way, and if he learns to study in this way, he should find that he can do all that is assigned him and have sufficient time for reasonable participation in athletics. Many men study far too long and instead of progressing become stale. In my college days, there was a saying with reference to the hours of study "That 8 and 2 are 10, and 2 are 8" which meant that two hours spent in study beyond what was thought of as the normal number, 8, might help a man, but that 2 hours more than that would do more harm than good. The Institute has suffered a good deal in the past from the inadequate facilities for athletics that have been furnished, the athletic field being so far away as to be almost inaccessible. Happily, the conditions today are greatly improved, and they will be vastly better when we get across the Charles and have an admirable athletic field right at our doors. I hope that all Tech men will take advantage of the opportunities that are presented and prepare for the better days that are coming by getting into the habit of exercising now.

Yours very truly,

RICHARD C. MACLAURIN.

Sophomores Capture Field Day

Each year in the history of the Institute, Field Day becomes a more important event. Great preparations were made to celebrate Field Day, Friday, November 5. The *Technique* organized and armed a fearsome brass band, and the students met and practiced songs and cheers in order to do the occasion justice. When the day arrived, however, it was cold, drizzling November weather, but Tech spirit rose superior to a little obstacle of that kind, and a body of five hundred students marched from Rogers Building to the field, headed by the *Technique* band. But that wasn't all, for beside the group of students that marched over, there were a great number of undergraduates who appeared in the grandstand with their ladies and watched the freshmen go down to defeat by the unusual score of 9-0. As the grandstand is not covered by a roof, the show of enthusiasm for Field Day by so many students and their friends is a source of much congratulation.

The opening event was the first pull of the tug-of-war. The sophomores got the jump and won their pull in 16 2-5s., bettering the previous record, made in 1903, by 4 3-5s. In the second pull the sophomores again won out with little difficulty in 46 4-5s.

The sophomores won the football game by 14-0. The first touchdown was made in the first period, with Gleason and Clarkson starring. Twice in the game the freshmen were on the sophomores' five-yard line, but were unable to score. In the last minute of play Malley, playing left halfback, caught a forward pass and ran 75 yards for the second touchdown. Gleason kicked both goals.

Kwan, Tech's Chinese sprinter, started the relay race by finishing several yards ahead of the freshman captain, Wright. From then on each of the 11 sophomores either kept his lead or increased it. Ford, the eleventh man, made considerable gain over his freshman competitor, and Russett, the sophomores' last man, finished a good 30 yards ahead of Steubenrauch, in the fair time of 4m. 59 2-5s.

Afterwards the undergraduates concluded their celebration of Field Day at

the Colonial Theater, which was practically sold out to them. The proscenium and boxes were draped with Tech colors and the sections set apart for the classes were marked with pennants and numerals. The play was *Watch Your Step*, and hearty cheers were given for Mrs. Vernon Castle and many of the other performers in the cast, some of whom were decked out with Tech colors. Dartmouth students, who were present for the game, established cordial relations by giving the Dartmouth cheer with "Tech" on the end, which was reciprocated in kind.

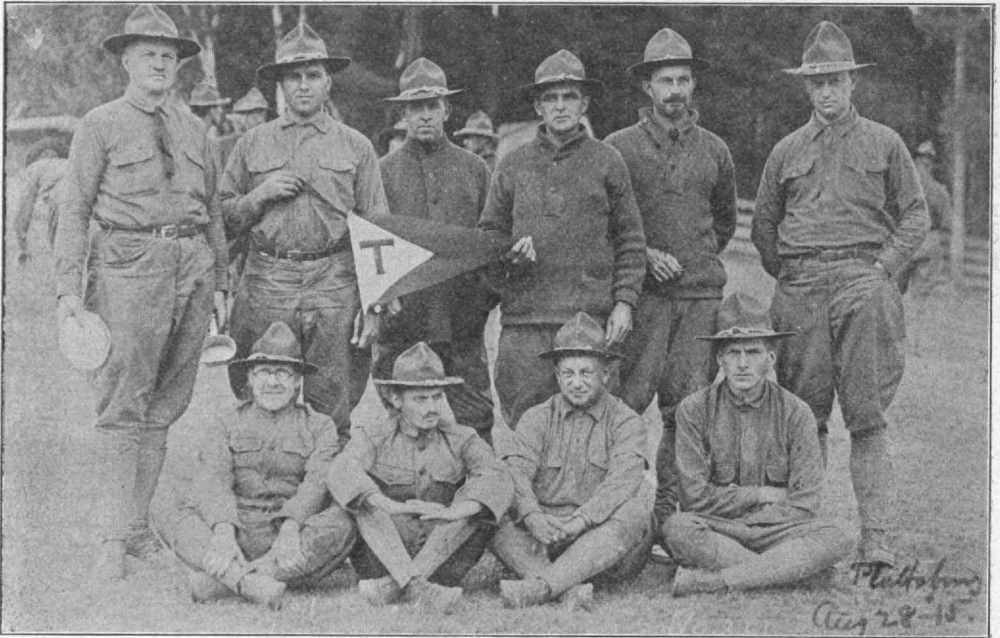
One of the pleasant features connected with Field Day was a letter which President Maclaurin wrote to *The Tech*, which appeared on Field Day morning. This letter which set forth very happily the attitude of the Institute toward student athletics, appears elsewhere.

Tech Wins National Rifle Championship

The sentiment in favor of ample defense of this country in case of war has permeated the undergraduates to such an extent that as a starter the corps of cadets has produced a team of sharpshooters which has proved its superiority over all other college teams in the country. The scores recently compiled by the National Rifle Association shows that the Technology rifle team has won the championship of the United States for 1915. The team won the match by the score of 838 points out of a possible 900, or 11 points more than has ever been scored in an intercollegiate competition. The record of 827 was made by the Naval Academy in 1914. The match was shot at a range of 200, 300 and 500 yards, the first at rapid fire, and the next two at slow fire. In both the 200 and 500-yard ranges, the team scored ten consecutive bull's-eyes.

The team is composed of C. T. Dunn, '15, captain; M. F. Brandt, '15; F. L. Butterworth, '17; G. G. A. Haslam, '15; T. D. Parsons, '16; and J. S. Stewart, '17. Stewart recently won the championship of the United States at the Florida matches.

The team will receive a silver plaque.



Some Tech Men at Plattsburg

Tech Men at Plattsburg

The business and professional men's camp for military instruction at Plattsburg last summer attracted many Tech men, and the REVIEW is in receipt of letters describing the life and service there from Theodore Skinner, '92, and Lester D. Gardner, '98, to whom we are under obligation for the pictures appearing herewith. The names of those who signed the company cards as Tech men are as follows:

Company A: J. P. Draper, '00, beginners' cavalry; C. J. Emerson, '04, beginners' cavalry; E. A. Sumner, '97, advance cavalry.

Company B: G. A. Hutchinson, '98, advance cavalry; Giles Taintor, '87.

Company C: N. A. Middleton, '07, engineering; J. C. Platt, Jr., '17.

Company D: W. Harrison Smith, '97, medical, also instructor in electrical engineering.

Company E: W. Packard, '85, beginners' cavalry; Albert F. Nathan, '99, artillery; C. W. Taintor, '93, map reading, military hygiene; John C. Whitaker, '16, artillery.

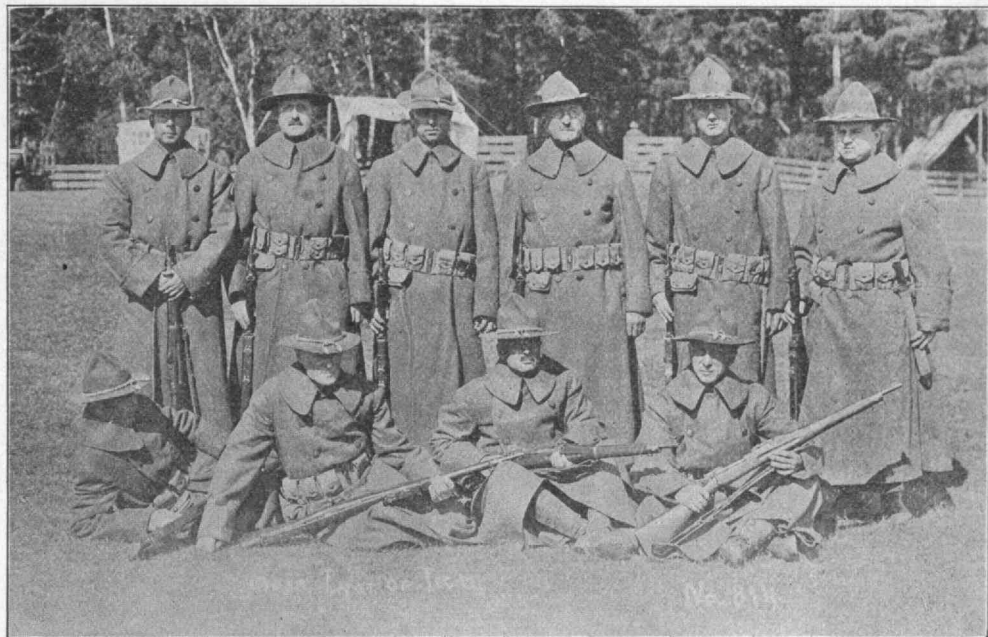
Company F: J. D. McQuaid, '04, machine guns; H. A. Rapelye, '08, machine guns.

Company G: D. W. Gibbs, '10, map making and fortifications; A. B. Tenny, '94, map making and fortifications; L. L. Clayton, '17.

Company H: C. C. Batchelor, instructor in English, artillery; R. D. Salisbury, '14, beginners' cavalry; R. P. Newheel, special, beginners' cavalry; M. Esterbrook, '01, machine guns; T. H. Skinner, '92, machine guns.

The pictures herewith are incomplete because the Tech men at the camp were not able to get together for a group picture. Another reason is that only a portion of the men served continuously; some of them served during the early part of the encampment, others during the latter part.

The men who attended are very enthusiastic over the experiences they had there, and believe that the Technology delegation should be very much larger next year. The serious purpose of every man who attended and the earnestness with which everyone went at his work so



Another group

exceeded the expectation of the regular army officers who had planned the camp that their program had to be revised several times. General Wood made the statement to Mr. Skinner that more was accomplished both from a physical point of view and from that of military training at the end of the twenty eight days of service than with regulars during six months of regular training.

The Camp at Washington Barracks

During the summer the War Department mobilized the militia from the eastern and central states, a battalion at a time, at the summer camp of Washington Barracks twenty five miles below Washington on the Potomac. A number of Tech men were registered at this camp, the story of which was told in the *Engineering Record* for September 11, by D.A. Tomlinson, '12. The camp consisted of several hundred acres of wooded lands and ravines on the Potomac River far enough from any residence so that the dynamite used by the wrecking crew would break no windows. Here the

work of the engineers in every department of army work was demonstrated. The demands on the men were strenuous, field conditions being simulated as far as possible.

Among those attending the camp were: H. S. Baker, '03; M. Maurice Cory, '11; Max Kushlan, '11; J. A. Cook, '12; W. E. Lucas, Jr., '14; D. A. Tomlinson, '12.

Lunch for Professor Spofford

The Pittsburgh Association held a small but pleasant luncheon party on Tuesday, November 9, in honor of Professor Spofford, Hayward professor of civil engineering, who was in Pittsburgh to deliver an address before the Engineers Society of Western Pennsylvania. About thirty were present, including the officers and board of directors of the Engineers Society. Professor Spofford spoke very entertainingly about Institute matters, and passed around for our inspection photographs showing the present state of the new buildings.

W. B. Blake, vice-president, presided in Mr. Robinson's absence.

Scholarships are Generous

Figures relating to assistance given to students at Tech, show that about one pupil in every six is given some form of scholarship aid. This is a little greater than ever before. A statement of the assistance given since 1907 is shown in the table below:

Year	Aided by		Total	Total Per cent	
	Tech	State		Regis.	Aided
1907-08.....	175	40	215	1,415	15.2
1908-09.....	199	47	246	1,461	16.8
1909-10.....	199	54	253	1,479	17.1
1910-11.....	187	56	243	1,506	16.1
1911-12.....	187	80	267	1,566	17.0
1912-13.....	207	99	306	1,611	18.9
1913-14.....	207	103	310	1,685	18.5
1914-15.....	217	107	324	1,816	17.7

In the past, this represented one student aided for every 5.6 students in the Institute and the sum of money expended is nearly \$25,000. The increase in the state grants in 1911-12 was due to the doubling of the scholarships by an act of the legislature. In the following years the scholarships were split.

All residents of Massachusetts who need the aid of the state scholarships are eligible. The applications must be approved by the senator in the district. In districts where more than two applications are received the senator usually follows the custom of approving all the applications. This means split scholarships for four men and the choice of men is then made by the State Board of Education which makes its awards partly on the scholarship of the applicants and partly on the student's need.

If only two applications are approved, the State Board has no alternative but to make the awards according to the wish of the senator. The State Board always secures the records of the students from the Institute before awarding the scholarships.

The number of grants made by the Institute has shown a more rapid increase than the total registration. The amounts awarded from the Institute funds for this purpose have increased from \$20,437 in 1907-08 to about \$25,000 in 1914-15.

Thirteen per cent. of the scholarships in 1912-13 were granted to freshmen. It has occasionally been questioned whether it is prudent to give such aid to first year

students, but the records show that on the whole the judgment of the committee has not been misplaced. As an example, in the class of 1907-08, 17 freshmen received grants, and all but one continued through and graduated. The exception left in good scholarship standing. In the class of 1912 there were 25 freshmen aided, and of these 22 graduated.

On account of concessions made to the Institute by the city of Cambridge the Institute has set aside a special budget for the students coming from Cambridge. The amount of money so set aside last year was \$2,500, more than one-tenth of the whole sum appropriated for undergraduate scholarships at Technology. Up to last year it was possible to grant a full scholarship of \$250 to every student from Cambridge who applied for aid and had maintained a clear record at the Institute. Now, however, the number necessitates a discrimination.

Technology and the Harvard Coöp.

Next year the Harvard Coöperative Society will absorb the Technology Coöperative Society in accordance with a report of the Student Committee on the Coöperative Society which reported to the Institute Committee this year. At the request of the undergraduates, the matter was also investigated by the Alumni Association through a committee of which Leonard C. Wason, '90, was chairman. He brought in an exhaustive report showing that the most feasible plan for procuring the desired result would be to coöperate with the Harvard Society rather than attempt to build up a large business enterprise ourselves. A branch store will be established in the immediate vicinity of the new Technology buildings, giving Technology students the same advantage of prices that the Harvard men have now. The earnings of the Harvard Coöperative Society during the past year have dropped below previous figures. The total sum amounts to about \$15,000. During the past two years the rate of dividends has dropped from nine per cent. to seven per cent., the war having cut into the profits of the society to this extent.

Combined Musical Clubs

The Combined Musical Clubs have started this season with as bright an outlook as ever confronted a similar organization. There is, first of all, the foundation laid by the most successful season in the clubs' history, that of 1914-1915. Secondly, the number of veterans on the clubs is large; and, coupled with the fact that the management is composed of live men throughout, the organization should come through most successfully.

Following last year's precedent, the management is planning a trip for the mid-year vacation—the itinerary to cover approximately fifteen hundred miles. As already completed, the plans are as follows: Leaving Friday, January 28, by boat for Baltimore, Md., where a concert will be presented on Monday evening under the auspices of a prominent local club. Tuesday, the men will appear in Philadelphia, Pa., where they will be given a rousing welcome by the newly reorganized alumni association of that place. Leaving Philadelphia, the Wednesday evening concert will, in all probability, be presented in Montclair, N. J., at the Montclair Club. Montclair was the scene of the first concert in the 1914-1915 trip; and, if the clubs go there again this year, a fine reception will be the result. On Thursday evening, the clubs will appear in New York City at a concert under the auspices of the New York alumni. This is but the second trip to New York City in the history of the clubs and should prove eminently successful. The Friday and Saturday dates have not yet been announced; but will include concerts in the vicinity of Albany, N. Y., and Springfield, Mass., thus rounding out a delightful trip.

The roster of the clubs will include forty men; and they will travel in a private Pullman throughout the trip after leaving Baltimore. This is the third long trip in the history of the clubs, the first being in 1910, when Chicago, Detroit, Buffalo, etc., were visited; and the second in 1915, when Philadelphia, Rochester, Butler, and Washington, Pa.,

were included in the itinerary. A large number of local concerts are being presented by the clubs in preparation for the trip, including appearances at the Franklin Square House, Wakefield, Dudley Street Baptist Church, Wheaton College, New Bedford and the winter concert.

In place of the Hawaiian Quintette, which performed for the clubs so creditably last season, the men are now putting on a short, spicy skit which is calling forth much favorable comment in appearances to date. The soloist of the Glee Club is E. H. Raymond, 1917, of Roxbury, Mass. Mr. Raymond has a very pleasing baritone voice and renders, skillfully, such works as Huhn's *Invictus* and *Caro Mio Bien*, a delightful little Italian piece. Another of the features is the Mandolin Sextette which interprets rag-time in a particularly spirited and attractive manner—the instrumentation being two first mandolins, a second mandolin, a tenor mandola, a mando-cello and a guitar. Following the usual custom, the Glee and Banjo Clubs will each have a quartette on the program—these smaller units having appeared very successful to date.

A New Follow-up Scheme

By February, arrangements will have been made at the alumni office to keep track of every Tech man and follow him from place to place with much greater accuracy than at present. All Tech men are asked to kindly send in address changes as soon as made. The local secretary is also asked to send this information, where he has it, and on the other hand, the secretaries are to be notified from time to time as new men come into their territory or move from it when we get the information first. Each class secretary will have a card index, and the changes of address will be on similar cards. In this way the secretaries' lists will be practically up to date every day, and the alumni office will be fully in touch with all the movements of Tech men. Undoubtedly secretaries of local associations will take the opportunity to send a special note of invitation to new men coming into their territory so that the interest of such men may be enlisted at once.

OFFICERS OF LOCAL ALUMNI ASSOCIATIONS

Partial list of the Governing Boards of Technology Clubs—Several hundred alumni are interested indirectly in running these Clubs

Following is a list of the officers of the local alumni associations, and of the Technology Clubs Associated:

Technology Clubs Associated: president, James W. Rollins, '78; vice-presidents, Walter Large, '79, H. M. Montgomery, '79, E. B. Raymond, '90, Hollis Godfrey, '98, P. W. Litchfield, '96, J. H. Haste, '96; secretary-treasurer, Walter Humphreys, '97; associate secretary, Harry A. Rapelye, '08.

Akron—M. I. T. Club of Akron, Ohio: president, W. H. Eager, '04; secretary-treasurer, Howard W. Treat, '14.

Albany—Technology Club of Albany, New York: president, Ralph C. Robinson, '01; vice-president, Russell Suter, '00; secretary-treasurer, N. J. Kingsbury, '02.

Atlanta—Atlanta Association of M. I. T.: president, L. M. Thacher, '86; secretary, H. M. Keys, '99.

Birmingham—Southeastern Technology Association: secretary, A. F. Mohan, '08; Alumni Council representative, H. S. Mork, '99.

Boston—Technology Club of Boston: president, Samuel C. Prescott, '94; vice-president, Dwight Porter; secretary, Robert S. Williams, '02; treasurer, Andrew D. MacLachlan, '96.

Bridgeport—Technology Club of Bridgeport: president, H. R. Philbrick, '06; treasurer, P. W. Dalrymple, '12; secretary, Wilbur A. Swain, '15; Alumni Council representative, F. C. Blanchard, '91.

Buffalo—Technology Club of Buffalo, New York: president, Harry L. Noyes, '90; secretary and treasurer, Ellery Earle Root, '08; Alumni Council representative, Arthur C. Anthony, '86.

Butte—Technology Club of Montana: president, Charles W. Goodale, '75; vice-president, Ralph Hayden, '04; secretary-treasurer, C. D. Demond, '93.

Chicago—Northwestern Association of the M. I. T.: president, Kenneth Lockett, '02; vice-president, H. M. Montgomery, '79; secretary-treasurer, George B. Jones,

'05; Alumni Council representative, B. R. T. Collins, '88.

Chile—Technology Club of Chile: president, W. L. Stevens, '00; secretary, J. L. Bray, '12.

China—Technology Club of China: president, W. W. Stevens, '98; secretary-treasurer, W. A. Adams, '08.

Cincinnati—Cincinnati M. I. T. Club: president, Richard W. Proctor, '94; vice-president, John M. Hargraves, '12; secretary, Edward H. Kruckemeyer, '11; treasurer, Charles R. Strong, '11; Alumni Council representative, H. N. Dawes, '93.

Cleveland—Technology Club of Northern Ohio: president, Paul W. Litchfield, '96; vice-president, Frederick Metcalf, '90; secretary-treasurer, Donald R. Stevens, '11; Alumni Council representative, G. R. Wadsworth, '98.

Technology Association of the Connecticut Valley: president, Edmund P. Marsh, '89; vice-president, C. E. Whitney, '91; secretary-treasurer, Ernest W. Pelton, '03; Alumni Council representative, Eben S. Stevens, '68.

Dayton—Dayton Technology Association: president, Walter G. Wuichet, '89; vice-president, Henry M. Waite, '90; secretary-treasurer, J. E. Barlow, '05; Alumni Council representative, Charles F. Park, '92.

Denver—Rocky Mountain Technology Club: president, S. C. Lind, '02; secretary, Frederick W. Horton, '04; Alumni Council representative, Allen H. Rogers, '90.

Detroit—Detroit Technology Association: president, William R. Kales, '92; vice-president, George R. Anthony, '98; secretary-treasurer, Donald V. Williamson, '10; Alumni Council representative, Everett Morss, '85.

Duluth—Technology Club of Lake Superior: president, Samuel B. Sheldon, '89; vice-president, Walter G. Zimmermann, '98; secretary, Floyd M. Fuller, '06.

Fall River—Technology Club of Fall River: president, J. E. Nute, '85; treas-

urer, Arthur E. Hirst, '13; secretary, Earl R. Hamilton, '10.

Hartford—Technology Club of Hartford: president, J. H. Fellows, '06; vice-president, H. E. Dart, '01; secretary-treasurer, George W. Baker, '92; Alumni Council representative, G. H. Gleason, '03.

Hawaii—Technology Club of Hawaii: president, Jacob F. Brown, '78; secretary, Norman Watkins, '98; Alumni Council representative, Edwin S. Webster, '88.

Indianapolis—Indiana Association M. I. T.: president, J. Lloyd Wayne, 3d, '96; vice-president, W. G. Wall, '96; secretary, Wilson B. Parker, '88.

Japan—Technology Association of Japan: secretary-treasurer, Takuma Dan, '78; Alumni Council representative, William H. King, '94.

Kansas City—Southwestern Association of M. I. T.: president, G. M. Holbrook, '00; vice-president, Frank Cushman, Jr., '01; secretary-treasurer, Hermann C. Henrici, '06; Alumni Council representative, W. Lyman Underwood, '98.

Lawrence-Lowell—Technology Club of the Merrimack Valley: president, C. H. Eames, '97; vice-president, Robert F. Pickels, '87; secretary, John A. Collins, Jr., '97; treasurer, William O. Hildreth, '87; Alumni Council representative, R. A. Hale, '77.

Los Angeles—Technology Club of Southern California: president, Edward L. Mayberry, '06; vice-president, Edward Johnson, '99; secretary-treasurer, Paul E. Jeffers, '12; Alumni Council representative, John C. Chase, '74.

Louisville—The Technology Club of Louisville, Ky.: president, James Clark, Jr., '90; secretary, L. S. Streng, '98.

Manchester—Technology Club of New Hampshire: president, Edward W. Rollins, '71; vice-president, Norwin S. Bean, '94; secretary-treasurer, Walter D. Davol, '06; Alumni Council representative, Andrew Fisher, Jr., '05.

Milwaukee—Technology Club of Milwaukee: secretary, Mitchell Mackie, '05; Alumni Council representative, Alexander Macomber, '07.

Minneapolis—Technology Association of Minnesota: president, W. H. Bovey,

'94; vice-president, G. H. Goodell, '92; secretary, DeW. C. Ruff, '07; treasurer, Mark G. Magnuson, '04; Alumni Council representative, Allan W. Rowe, '02.

Montreal—Technology Club of Lower Canada: president, D. J. Spence, '97; vice-president, H. O. Keay, '00; secretary-treasurer, E. B. Evans, '06; Alumni Council representative, George W. Vailant, '92.

New Bedford—Technology Club of New Bedford, Mass.: president, W. A. Robinson, Jr., '97; secretary-treasurer, Richard D. Chase, '92; Alumni Council representative, C. F. Lawton, '77.

New Orleans—Technology Club of the South: president, Allison Owen, '95; vice-president, Alumni Council representative, Harold E. Kebbon, '12.

New York—Technology Club of New York: president, F. C. Schmitz, '95; vice-president, Schuyler Schieffelin, '90; treasurer, Ira Abbott, '81; assistant treasurer, Clifton W. Wilder, '98; secretary, Ralph H. Howes, '03; Alumni Council representative, Ralph H. Howes, '03.

Philadelphia—Technology Club of Philadelphia: president, Eugene S. Foljambe, '01; vice-president, H. L. Walker, '05; secretary-treasurer, C. J. Walton, '14; Alumni Council representative, Reginald A. Wentworth, '04.

Pittsburgh—Pittsburgh Association M. I. T.: president, C. S. Robinson, '84; vice-president, W. B. Blake, '87; secretary-treasurer, H. A. Rapelye, '08; Alumni Council representative, Sumner B. Ely, '92.

Pittsfield—Technology Club of Pittsfield: chairman, C. P. Randolph, '10; secretary, E. E. Ferry, '12; Alumni Council representative, W. B. Snow, '82.

Portland—Technology Association of Oregon: president, Robert S. Edwards, '02; secretary-treasurer, John G. Kelly, Jr., '14; Alumni Council representative, A. D. MacLachlan, '96.

Providence—Technology Club of Rhode Island: president, William C. Dart, '91; vice-president, Z. W. Bliss, '89; secretary-treasurer, Clarence L. Hussey, '08; Alumni Council representative, E. B. Homer, '85.

Rochester—Technology Club of Roch-

ester: president, William E. Hoyt, '68; first vice-president, B. C. Hopeman, '00; second vice-president, J. F. Ancona, '03; secretary-treasurer, W. G. Bent, '05; Alumni Council representative, Howard C. Turner, '03.

St. Louis—St. Louis Society of the M. I. T.: chairman, John L. Mauran, '89; secretary-treasurer, Amasa M. Holcombe, '04; assistant secretary, Benjamin F. Thomas, Jr., '13; Alumni Council representative, Charles M. Spofford, '93.

Salt Lake City—Intermountain Technology Association: president, C. S. McDonald, '99; vice president, George S. Humphrey, '10; secretary-treasurer, W. H. Trask, Jr., '06; Alumni Council representative, George E. Russell, '00.

San Francisco—Technology Association of Northern California: president, John R. Brownell, '01; secretary-treasurer, George E. Atkins, '04; Alumni Council representative, Burton G. Philbrick, '03.

Seattle—Technology Club of Puget Sound: president, M. P. Anderson, '10; vice-president, Walter A. Gleason, '97; secretary-treasurer, Joseph Daniels, '05; Alumni Council representative, Don Galusha, '04.

Spokane—Inland Empire Association of the M. I. T.: president, Shirley S. Philbrick, '98; vice-president, William J. Roberts, '91; secretary, Philip F. Kennedy, '07; Alumni Council representative, H. W. Gardner, '94.

Technology Club of Springfield: president, F. W. Fuller, '96; secretary-treasurer, George W. Hayden, '95; Alumni Council representative, F. W. Fuller, '96;

Syracuse—M. I. T. Club of Central New York: president, H. W. Jordan, '91; vice-president, E. M. Smith, '06; secretary-treasurer, James R. Vedder, '07; Alumni Council representative, Theodore H. Skinner, '92.

Urbana—Tech Club of the University of Illinois: president, A. C. Willard, '04; secretary-treasurer, E. A. Holbrook, '04.

Washington—Washington Society of the M. I. T.: president, O. C. Merrill, '05; vice-president, Herbert S. Bailey, '06; treasurer, F. Charles Starr, '05; secretary, H. G. A. Black, '10; Alumni Council representative, Henry Morss, '93.

Worcester—Technology Association of Worcester County: president, Albert S. Heywood, '92; vice-president, Frank E. Davis, '83; secretary-treasurer, Louis E. Vaughan, '02.

Smoker in Pittsburgh

Although the members of the Pittsburgh association had met but a few days before to welcome Professor Spofford on the occasion of his visit to Pittsburgh, some thirty or thirty-five men met at the University Club November 19, to hear about the progress on the Technology buildings, the dormitories and the Walker Memorial, and also to learn something about the big reunion of 1916 from Field Manager Litchfield, who stopped there on his way to Indianapolis. Mr. Litchfield had about sixty pictures showing the progress on the new buildings from the bare site up to the present time; also some pictures of the interior of Rogers' taken in the late 70's. The greatest interest was manifested in the news from Boston, especially in reference to the reunion. It was stated by some of the men there they should take at least two cars out of Pittsburgh.

Growth in strength and interest in the Pittsburgh club is on the marked increase from year to year, and one of the members of the association at this meeting stated that he would never feel that the alumni had done their full duty toward the Institute until they had established a center of Technology interest and spirit in the form of a Tech house where some of the men could live and which could be a rendezvous for men visiting Pittsburgh as well as for the smaller meetings of the association.

Thomas Barry Killed

Thomas J. Barry, '15, was fatally injured by the collapse of a staging at the Fore River shipbuilding yard November 23, and lived but a short time after his arrival at the Quincy City Hospital. The cause of the accident is unknown.